

## II. Amendments to the Claims

Please amended the claims as follows with the following clean versions of the claims in accordance with 37 CFR § 1.121; marked-up versions of the claims are presented in the following section.

### Clean version of amended claims:

A4  
1. (Amended) An horological device comprising:  
a time cell, wherein the time cell has a substantially discharged state before a programming operation and has a controlled discharge state after the programming operation, and wherein the time cell transitions after the programming operation from the controlled discharge state to the substantially discharged state within a predetermined time period after the programming operation; and

a conductive lead connected to the time cell to allow reading a state of the time cell.

A5  
46. (Amended) An article of manufacture comprising:  
a binary time cell; and  
a conductive lead for allowing a state of the binary time cell to be modified or read.

Marked-up version of the amended claims--additions are shown with double-underlines and deletions are shown with strike-throughs.

1. (Amended) An horological device comprising:

a time cell, wherein the time cell has a substantially discharged state before a programming operation and has a controlled discharge state after the programming operation, and wherein the time cell transitions after the programming operation from the controlled discharge state to the substantially discharged state within a predetermined time period after the programming operation; and

| a conductive lead ~~circuitry~~ connected to the time cell to allow reading a state of the time cell.

46. (Amended) An article of manufacture comprising:

a binary time cell; and

| a conductive lead ~~circuitry~~ for allowing a state of the binary time cell to be modified or read.